FIG.1

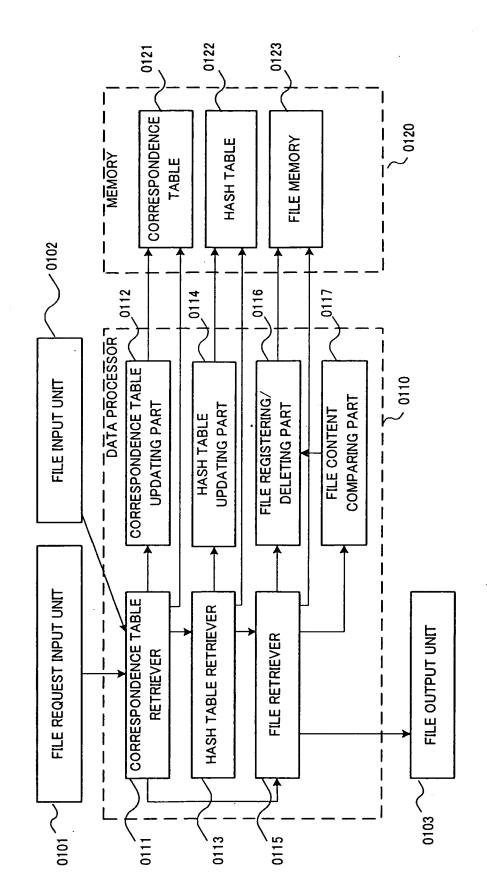




FIG.2

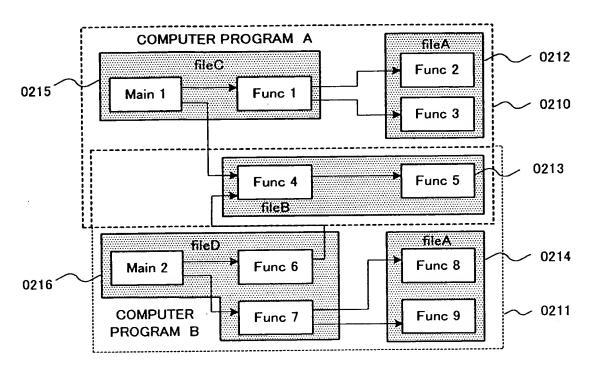


FIG.3

FILE NAME	FILE ID	MANAGING ID
	usr 001. prog 01	A-1
file A	usr 001. prog 02	A-2
	usr 002. prog 01	A-1
5. 6	usr 002. prog 01	B-1
file B	usr 003. prog 01	B-2
:	:	:

FIG.4

FILE NAME	FILE	MANAGING ID
	FuncA () 0401	A-1
file A	FuncB() 0402	A-2
	FuncC() 0403	A-3

(a)

KEY VALUE	MANAGING ID	
HASH TABLE FOR	A-1	
FILE 0401(=aaaa)		
HASH TABLE FOR	A-2	
FILE 0402(=bbbb)	A 2	
HASH TABLE FOR	A-3	
FILE 0403(=bbbb)	A-3	

(b)

FIG.8

MANAGING ID	FILE
A-1	FuncA () 0401
A-2	FuncB () 0402
A-3	FuncC() 0403

FIG.5

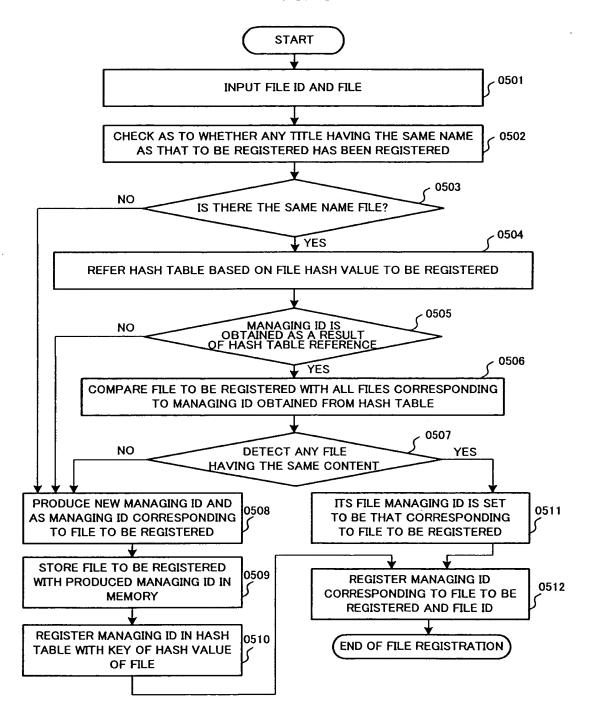


FIG.6

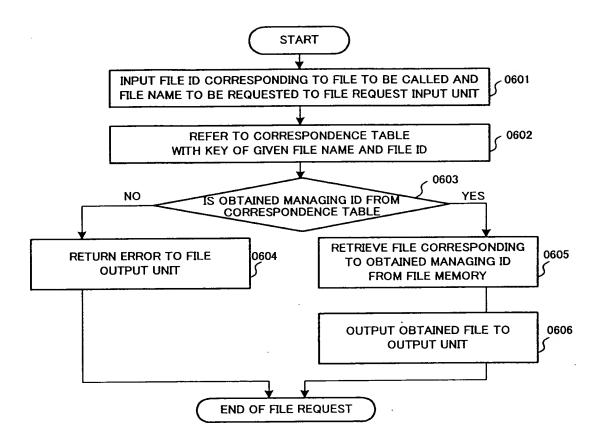


FIG.7

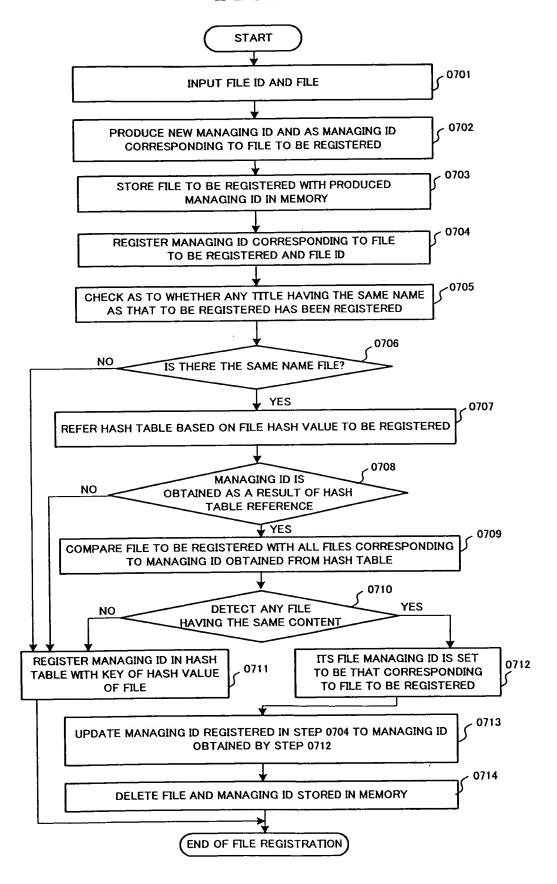
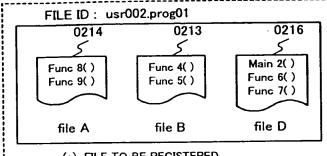


FIG.9

file C

file D



(a) FILE TO BE REGISTERED

CORRESPONDENCE TABLE

FILE NAME	FILE ID	MANAGING ID
file A	usr001.prog01	fileA−1
file B	usr001.prog01	fileB-1
file C	usr001.prog01	fileC-1

HASH TABLE OF FILE A

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE A0212	fileA-1

HASH TABLE OF FILE B

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE B0213	fileB−1

HASH TABLE OF FILE C

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE C0215	fileC-1

FILE MEMORY

TILL MEMORY		1203
MANAGING ID	FILE	71200
fileA−1	Func 2() Func 3()	
fileB−1	Func 4() Func 5()	
fileC-1	Main 1() Func 1()	

(b) BEFORE REGISTRATION

CORRESPONDENCE TABLE 1204 FILE ID MANAGING ID FILE NAME fileA-1 usr001.prog01 1211 file A fileA-2 usr002.prog01 fileB-1 usr001.prog01 1212 file B usr002.prog01 fileB-2

fileC-1

fileD−1

1213

HASH TABLE FOR FILE A

usr001.prog01

usr002.prog01

KEY VALUE	MANAGING ID	
HASH TABLE FOR FILE A0212	fileA−1	1209
HASH TABLE FOR FILE A0214	fileA−2	/~

HASH TABLE FOR FILE B

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE B0213	fileB−1

HASH TABLE FOR FILE C

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE C0215	fileC−1

HASH TABLE FOR FILE D

KEY VALUE	MANAGING ID	1210
HASH TABLE FOR FILE D0216	fileD−1	ا ١٠٠٠

FILE MEMORY

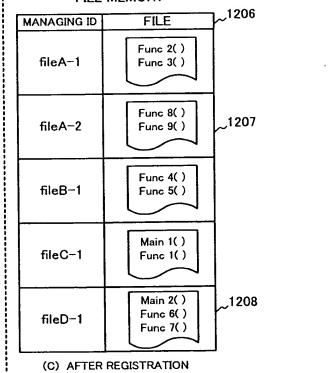


FIG.10

CORRESPONDENCE TABLE FILE MEMORY √1312 1311 MANAGING ID **FILE NAME** FILE ID MANAGING ID FILE usr001.prog01 fileA-1 file A _1304 Func 2() usr002.prog01 fileA-2 fileA-1 Func 3() usr001.prog01 fileB-1 file B _1305 usr002.prog01 fileB-2 usr001.prog01 fileC-1 file C -1306 Func 8() file D usr002.prog01 fileD-1 ~1301 fileA-2 Func 9() (a) Func 4() HASH TABLE OF FILE A fileB-1 Func 5() **KEY VALUE** MANAGING ID fileA-1 HASH TABLE FOR FILE A0212 -1307 HASH TABLE FOR FILE A0214 fileA-2 Func 4() ~1302 fileB-2 Func 5() HASH TABLE OF FILE B **KEY VALUE** MANAGING ID HASH TABLE FOR FILEB0213 fileB-1 Main 1() fileC-1 Func 1() HASH TABLE OF FILE C **KEY VALUE** MANAGING ID HASH TABLE FOR FILE C0215 fileC-1 Main 2() ~1303 Func 6() HASH TABLE OF FILE D fileD-1 Func 7() MANAGING ID **KEY VALUE** -1308 HASH TABLE FOR FILE D0216 fileD-1 (c)

(b)

FIG.11

File	ID.	
HASH TABLE FOR FILE 0401	A-1	← FOR FILE NAME"file A"
HASH TABLE FOR FILE 0402	A-2	← FOR FILE NAME"file A"
HASH TABLE FOR FILE 0403	A-3	FOR FILE NAME"file A"
HASH TABLE FOR FILE 0404	B-1	FOR FILE NAME"file B"
HASH TABLE FOR FILE 0405	B-2	← FOR FILE NAME"file B"
:	:	
		W

FIG.12

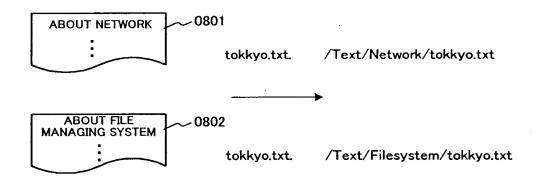


FIG.13

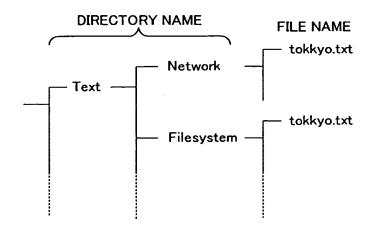


FIG.14

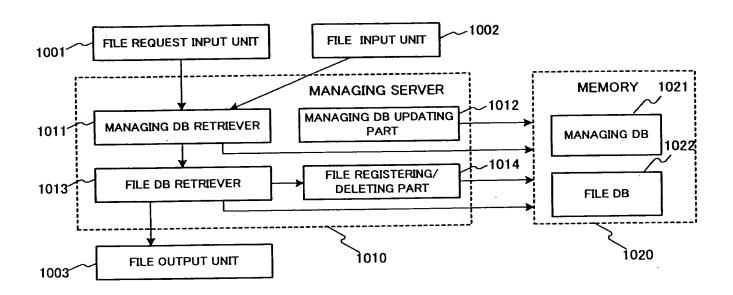


FIG.15

TYPE	FILE NAME	VERSION	MANAGING ID
1 1	Α	1.0	001
2	Α	1.0	002
1	Α	2.0	003
1	В	1.0	004
l		_	
		:	•
1			